

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 P Base NEMA Premium Efficiency Three-Phase			Product code :		13406058
Frame	:	143HP			Locked rotor time	:	32s (cold) 18s (hot)
Output	:	1 HP (0.75 kW)			Temperature rise	:	80 K
Poles	:	4			Duty cycle	:	Cont.(S1)
Frequency	:	60 Hz			Ambient temperature	:	-20°C to +40°C
Rated voltage	:	575 V			Altitude	:	1000 m.a.s.l.
Rated current	:	1.18 A			Protection degree	:	IP55
L. R. Amperes	:	10.1 A			Cooling method	:	IC411 - TEFC
LRC	:	8.6x(Code M)			Mounting	:	W-6
No load current	:	0.752 A			Rotation ¹	:	Both (CW and CCW)
Rated speed	:	1760 rpm			Noise level ²	:	51.0 dB(A)
Slip	:	2.22 %			Starting method	:	Direct On Line
Rated torque	:	0.412 kgfm			Approx. weight ³	:	22.9 kg
Locked rotor torque	:	290 %					
Breakdown torque	:	350 %					
Insulation class	:	F					
Service factor	:	1.25					
Moment of inertia (J)	:	0.0049 kgm ²					
Design	:	B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	80.0	84.0	85.5	Max. traction			
Power Factor	0.55	0.68	0.75	Max. compression			
Losses at normative operating points (speed;torque), in percentage of rated output power							
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)	
15.9	12.8	12.5	10.1	7.0	5.8	4.3	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6307 ZZ		6204 ZZ			
Sealing	:	V'Ring		V'Ring			
Lubrication interval	:	-		-			
Lubricant amount	:	-		-			
Lubricant type	:	Mobil Polyrex EM					
Notes:							
This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (4) At 100% of full load.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.			
Rev.	Changes Summary			Performed	Checked	Date	
Performed by							
Checked by					Page	Revision	
Date	14/01/2024				1 / 2		

LOAD PERFORMANCE CURVE

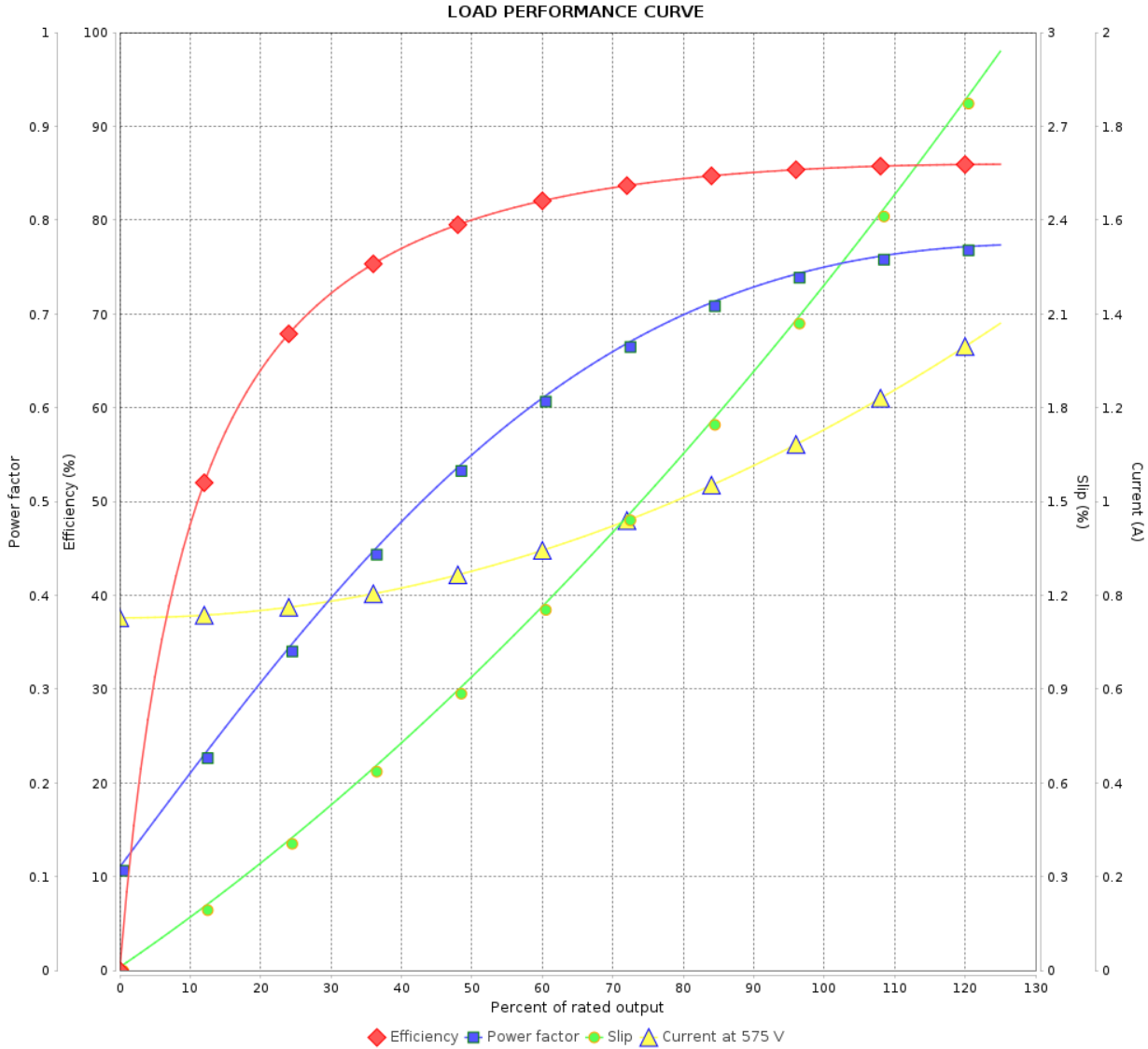
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 P Base NEMA Premium Efficiency
Three-Phase

Product code : 13406058



Performance : 575 V 60 Hz 4P

Rated current : 1.18 A
LRC : 8.6
Rated torque : 0.412 kgfm
Locked rotor torque : 290 %
Breakdown torque : 350 %
Rated speed : 1760 rpm

Moment of inertia (J) : 0.0049 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	14/01/2024			